

# **EUROPEAN PATENT APPLICATION**

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(86) Document number(s) of the earlier application(s) in  
 accordance with Art. 176 EPC:  
**01302586.1 / 1138349**

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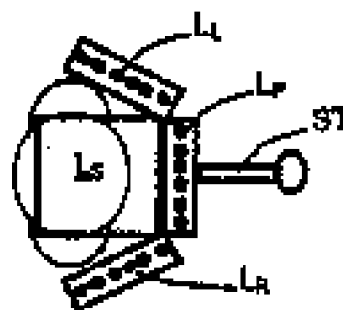
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## **(54) Therapeutic light source and method**

(57) A therapeutic light source comprises rigid arrays of LED's ( $L_F$ ,  $L_L$ ,  $L_R$ ) movably connected together, and cooled by forced air convection. The output intensity of the arrays is at least  $10 \text{ mW/cm}^2$  with a spatial intensity fluctuation of 10% or less in the treatment field. The emission spectral of the LED's may be substantially limited to the range 400 to 430 nm, or 590 to 640 nm. The light source may be used for cosmetic treatment, such as skin rejuvenation, wrinkle removal and/or biostimulation.

**Fig. 20a**





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# PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

P 04 01 1578

## DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to Claim	CLASSIFICATION OF THE APPLICATION (in LCL.T)
x	US! 5! 634! 711! A! (KAYSER! ROY ET! AL) 3 June! 1997 (1997-06-03) *! column! 2,! line! 10! -! line! 27! * *! column! 3, line! 38! -! column! 4,! line! 49! * *! column! 9, line! 26! -! line! 30;! claims 1,6,7,14,15,18; figures 1,7! *	5-7,9, 17-19	A61N5/06
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y	* page 8, line 26 page! 9, line 7! *  * page! 10,! line 8! - line 24! * * page 11, line 12! - line 25! * * page! 16,! line 28! - page! 17,! line 3! * * page! 18, line 4! - page! 19, line! 32; claims! 1-3;! figures! 5,10-12,14! *	1-4,8,9, 14-19	
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INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.</p> <p>Claims searched completely:</p> <p>Claims searched incompletely:</p> <p>Claims not searched:</p> <p>Reason for the limitation of the search:</p> <p>see sheet C</p>			
Place of search		Date of completion of search	Examiner
Munich		30! September! 2004	Rick, K
CATEGORY OF CITED DOCUMENTS		<p>!/: theory or principle underlying the invention</p> <p>E!: earlier patent document, but published on, or after the filing date</p> <p>D!: document cited in the application</p> <p>L!: document cited for other reasons</p> <p>&amp;!: member of the same patent family, corresponding document</p>	
<p>X!: particularly relevant if taken alone</p> <p>Y!: particularly relevant if combined with another document of the same category</p> <p>A!: technological background</p> <p>O!: non-written disclosure</p> <p>P!: intermediate document</p>			

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INCOMPLETE! SEARCH  
SHEET! C

Applicellon!Number  
EP 04 01 1578

Claims)! searched! completely:  
1-19

Claim(s)! not! searched:  
20-23

Reason! for! the! limitation! of! the! search (non-patentable invention(s)):

Article! 52! (4)! EPC! -! Method! for! treatment! of! the! human! or! animal body by  
therapy



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Office

PARTIAL! EUROPEAN! SEARCH! REPORT

Application! Number

EP! 04! 01! 1578

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**CLAIMS!INCURRING!FEES**

The!present **European** patent **application!comprised** at!the!time!of!filing!more!than!ten **claims**.

Only!part!of!the **claims!have!been** paid!within!the **prescribed** time!limit! The!present **European!search** report!has **been** drawn!up **for** the!first!ten **claims** and **for** those **claims** for!which **claims!fees!have** been!paid,!namely!daim(s):

No!claims!fees **have!been** paid!within **the!prescribed** time li mit! The!present!European!search **report!has** been!drawn!up!for!the!first!ten!claims.

**LACK!OF!UNITY!OF!INVENTION**

The!Search **Division!considers** that!the **present!European** patent!application!does!not!comply!with!the requirements!of!unity!of!invention!and!relates!to!several!inventions!or!groups!of!inventions,!namely:

see!sheet!B

rill All!further **search** fees **have!been!paid** within!the!fixed!time!limit! The **present!European!search!report** hat been!drawn!up!for!all!claims.

As!all **searchable** claims!could!be!searched!without!effort!justifying!an!additional!fee,!the!Search!Division did!not!Invite!payment!of!any!additional!fee.

Only!part!of!the!further **search!fees!have!been!paid** within!the!fixed!time!limit! The!present!European search!report!has!been!drawn!up!for!those!parts!of!the!European!patent!application!which!relate!to!the inventions!in!respect!of!which!search!fees!have!been!paid,!namely!claims:

None!of!the!further!search!fees!have!been!paid!within!the!fixed!time!limit! The!present!European!search report!has!been!drawn!up!for!those!parts!of!the!European!patent!application!which!relate!to!the!invention first!mentioned!in!the!claims,!namely!claims:



European Patent  
Office

LACK! OF! UNITY! OF! INVENTION  
SHEET! B

Applkation Number  
EP! 04! 01! 1578

The! Search! Division! considers! that! the! present! European! patent! application! does! not! comply! with! the  
requirements! of! unity! of! invention! and! relates! to! several! inventions! or! groups! of! inventions, namely:

1. claims: 1-4! and! 7-19! (if! dependent! on! claim! 1)

A! light! source! for! therapy! comprising! a! first,! second! and  
third! rigid array of! light! emitting diodes! movably! connected  
to! the! first! array.

2. claims: 5, 6! and! 7-19! (if! dependent! on! claim! 5)

A! therapeutic! light! source! comprising! an! array! of! light  
emitting! diodes! with! an output intensity! of! at! least! 10  
mw/cm<sup>2</sup>! and a spatial intensity fluctuation! of 10% or less! .

**ANNEX TO THE EUROPEAN SEARCH REPORT**  
ON EUROPEAN PATENT APPLICATION NO.

EP 04 01 1578

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30—09—2004

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